U.S.ARMY

OCTOBER 2019

ENERGY ACTION MONTH

ENERGY RESILIENCE ENABLES ARMY READINESS

PALADIN M109A7 SELF-PROPELLED HOWITZER

Upgraded alternators provide electrical power to replace hydraulic systems, increasing precision, lethality, and speed while simplifying maintenance.

INSTALLATION AND **OPERATIONAL** ENERGY RESILIENCE AND THE DEVELOPMENT OF NEW TECHNOLOGIES PLAY CRITICAL ROLES IN ENSURING THE ARMY IS READY TO DEPLOY, FIGHT, AND WIN DECISIVELY – TODAY AND IN THE FUTURE.

FORT CARSON, CO BATTERY ENERGY STORAGE

The 4.2 MW / 8.5 MW-hour battery energy storage system is the Army's largest. It will save Fort Carson approximately $500,000 per year on its electric bill.

READINESS

LETHALITY

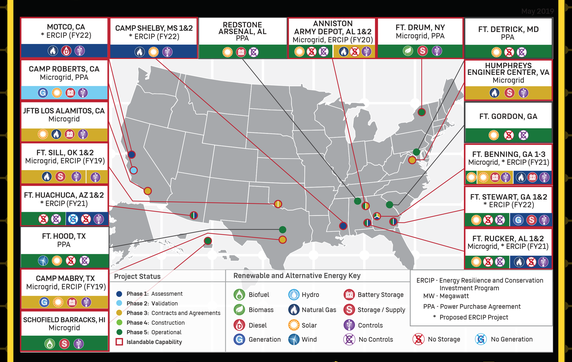
REFORM

ENERGY RESILIENCE READINESS EXERCISES

Forts Knox, Stewart, Greely, and Bragg initiated "lights out" exercises to test energy resilience capabilities during a power grid outage.

U.S. ARMY OFFICE OF ENERGY INITIATIVES

CURRENT ENERGY PROJECTS PORTFOLIO



11 PROJECTS ARE OPERATIONAL

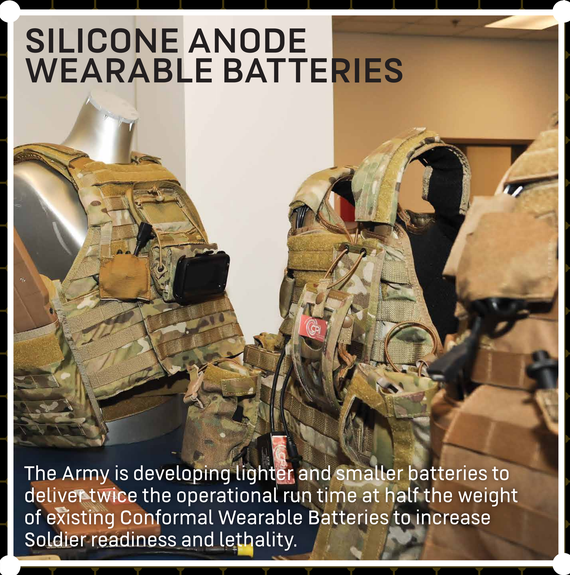
325 MW ONSITE GENERATION CAPACITY

14 of 18 PROJECTS BRING SOME ISLANDABLE CAPABILITY FOR CRITICAL MISSIONS

$627M ESTIMATED PRIVATE CAPITAL INVESTMENT

MODERNIZATION

SILICONE ANODE WEARABLE BATTERIES



The Army is developing lighter and smaller batteries to deliver twice the operational run time at half the weight of existing Conformal Wearable Batteries to increase Soldier readiness and lethality.

ROCK ISLAND ARSENAL, IL MODERNIZATION

The Army modernized systems in the plating shop, which coats metal components for Army equipment, to reduce labor, energy, chemical, and water requirements.

SCHOFIELD BARRACKS, HI ENERGY RESILIENCE PROJECT

The 50 MW multi-fuel generation plant is located above the tsunami inundation zone and provides "black start" capability.

Photo Credit: Hawaiian Electric

$1B
OPERATIONAL ENERGY INVESTMENTS

Army investments of more than $1B will modernize vehicles and weapons systems to maximize Soldier mobility and lethality to increase energy resilience and enable Army readiness.

$3.5B
PRIVATE SECTOR INVESTMENTS

At the end of FY18, Energy Savings Performance Contracts / Utility Energy Service Contracts received $2.9B of alternative financing. Office of Energy Initiatives resilience projects received $627M of private financing.

-5.7%
ENERGY USE INTENSITY

The Army reduced energy use intensity by 5.7% since FY15. Energy use intensity measures energy use per square foot of facilities.